

## ABSTRACT OF THE DISCLOSURE

A precipitated silica with the following physicochemical properties:

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	BET surface area	35 to 350 m <sup>2</sup> /g
	BET/CTAB surface area ratio	0.8 to 1.1
5	Pore volume, PV	1.6 to 3.4 ml/g
	Silanol group density (V <sub>2</sub> =	6 to 20 ml
	NaOH consumption)	
	Average aggregate size	250 to 1500 nm
10	CTAB surface area	30 to 350 m <sup>2</sup> /g
	DBP value	150 to 300 ml/100 g
	V <sub>2</sub> /V <sub>1</sub> by Hg porosimetry	0.19 to 0.46
	DBP/CTAB	1.2 to 2.4.

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is produced by reacting alkali silicate with mineral acids at temperatures of 60 to 95°C while maintaining a pH of 7.5 to 10.5 and continuously stirring, continuing the reaction to a solids concentration in the precipitation suspension of 90 to 120 g/l, adjusting the pH value to a value of less than or equal to 5, filtering out, washing, drying and optionally grinding or granulating the precipitated silica. The precipitated silica is used as a filler in vulcanizable rubber compounds and vulcanizates.